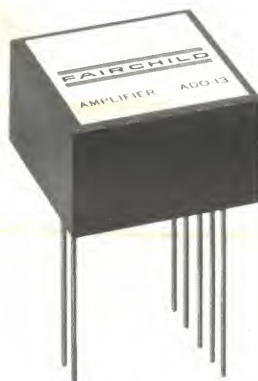


Solid State Silicon OPERATIONAL AMPLIFIERS

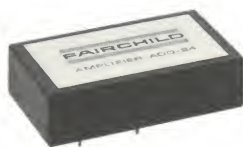
Fairchild Instrumentation, the leader in solid state technology, offers a complete line of both chopper stabilized and differential amplifiers.

The models pictured on this page are just a few of the many available. Specifications for 18 amplifiers are given in the following pages and other state-of-the-art units are being added to the product line each month. When you have an application, call your local Fairchild representative. If you need immediate delivery, you will find these amplifiers in stock at your local distributor.



GENERAL PURPOSE — \$16

ADO-13—open-loop gain 20,000; gain-bandwidth product 1.3 MHz; 40 $\mu\text{V}/^\circ\text{C}$ drift; 160 K Ω differential input impedance; 10 V, 2 mA output.



FET INPUT - 10 V/ μSEC SLEW RATE

ADO-24—input impedance of 10^{11} ohms; 50 pA offset current; open-loop gain 25,000; gain-bandwidth product 5 MHz; drift 20 $\mu\text{V}/^\circ\text{C}$; 10 V, 20 mA output drive, high capacitance loads.



HIGH CURRENT - LOW DRIFT

ADO-43—10 V, 20 mA output; open-loop gain 100,000; gain-bandwidth product 2 MHz; 10 nA offset current; 10 $\mu\text{V}/^\circ\text{C}$ drift.



10 V, 20 mA OUTPUT

ADO-40—open-loop gain 50,000; gain-bandwidth product 2 MHz; 20 $\mu\text{V}/^\circ\text{C}$ drift; offset current less than 35 nA.



CHOPPER STABILIZED - 140 V

ADO-9—chopper stabilized with built-in chopper drive; 1 $\mu\text{V}/^\circ\text{C}$ and 1 pA/ $^\circ\text{C}$ drift; offset current 20 pA; open-loop gain of 4×10^7 ; gain-bandwidth product 1 MHz; 140 V, 10 mA or 100 V, 40 mA output.



ULTRA LOW DRIFT - 0.5 $\mu\text{V}/^\circ\text{C}$

AOO-10—chopper-stabilized with built-in chopper drive amplifier; gain 5×10^7 ; 1 MHz gain-bandwidth product; 20 μV initial offset; 0.5 pA/ $^\circ\text{C}$ drift; 1 μV drift for 100 hours; 25 V, 5 mA or 22 V, 10 mA output.



25 V CHOPPER STABILIZED - OPERATES -40 to 100°C

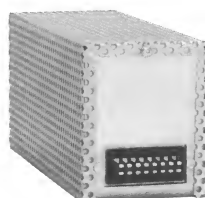
AOO-11—built-in chopper drive utilizes MOS FET chopper to achieve operation from -40°C to $+100^\circ\text{C}$. Offset current 50 pA and 1.5 $\mu\text{V}/^\circ\text{C}$ drift; 25 V, 10 mA or 20 V, 40 mA output.

SPECIAL AMPLIFIER PACKAGES

DIRECT REPLACEMENT FOR USA-3 VACUUM TUBE AMPLIFIERS - AOO-9S21 and AOO-9S4

The silicon solid state AOO-9S21 was specifically designed to replace the USA-3 vacuum tube amplifiers used in Fairchild Series 500 Test Systems. Elimination of tubes and mechanical choppers resulted in greatly improved reliability, decreased system down time, and improved accuracy. The AOO-9S4 is repackaged to be mechanically interchangeable with the USA-3, M3 case.

Both units are both electrically and mechanically interchangeable with the USA-3 including operation from ± 300 volt power supplies. The AOO-9S21 and AOO-9S4 offer the same performance specifications as the standard AOO-9.



AOO-9S



ADO-3A

AMPLIFIER & OFFSET POT MOUNTED ON CARD

The ADO-3PC1 is a standard ADO-3A mounted on a printed circuit board with the offset adjustment pot.

STANDARD AMPLIFIERS WITHOUT CASE

The AOO-4, AOO-7, AOO-9, AOO-10, and AOO-11 may be ordered without case but with mating connector included. These amplifiers are identified as follows: AOO-4S2, AOO-7S2, AOO-9S1, AOO-10S2, and AOO-11S1.

ACCESSORIES



ISOLATED POWER SUPPLIES

		Price
IPS-1	± 120 volts, 100 mA	\$295.
IPS-2	± 30 volts, 250 mA	295.
IPS-3	± 15 volts, 250 mA	295.

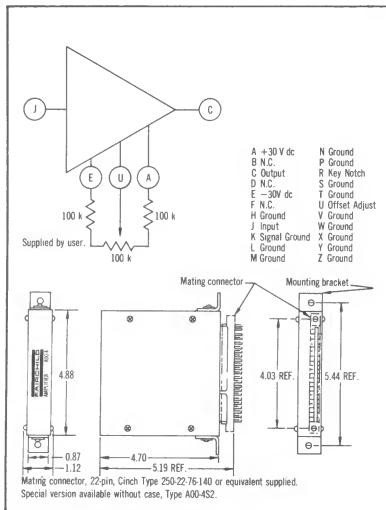
RACK ADAPTER (AA-01) - Accommodates a variety of amplifiers and/or power supply units for rackmounting. Possible combinations include:

- 10 AOO-7 amplifiers and 1 IPS-1 power supply
- 5 AOO-7 amplifiers and 2 IPS-1 power supplies
- 14 AOO-7, AOO-10 or AOO-11 amplifiers

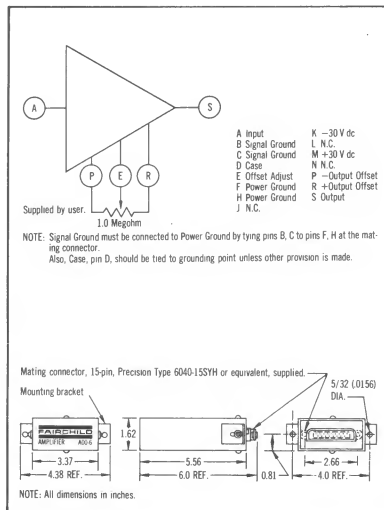
Price \$110.



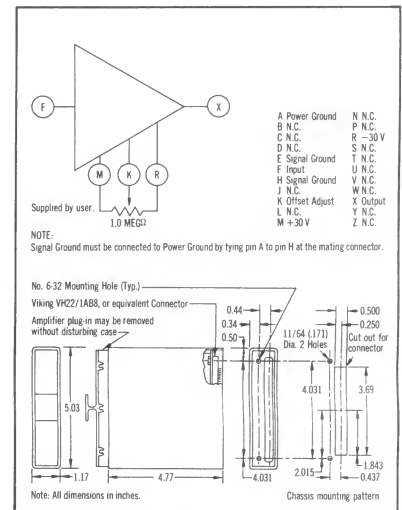
CASE SIZE AND PIN CONFIGURATION



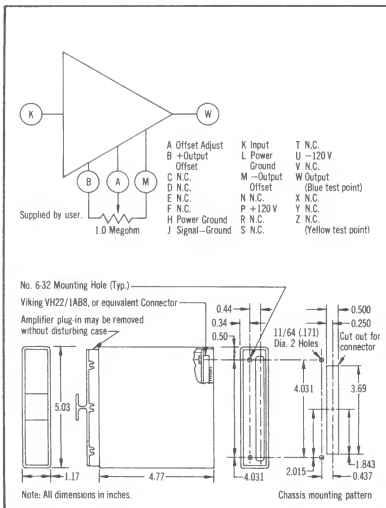
A004



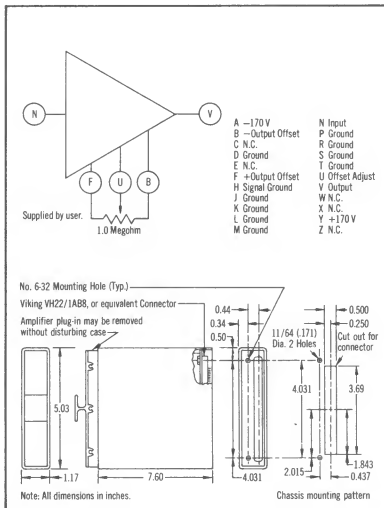
A006



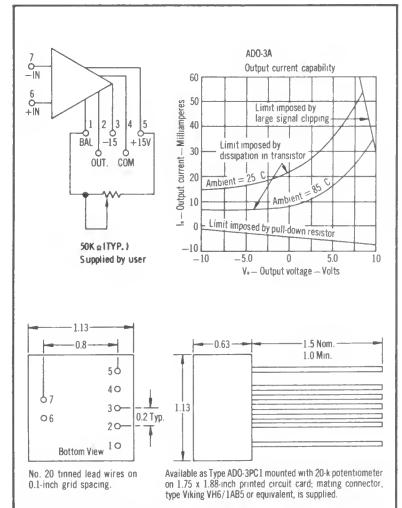
A0010 AND A0011



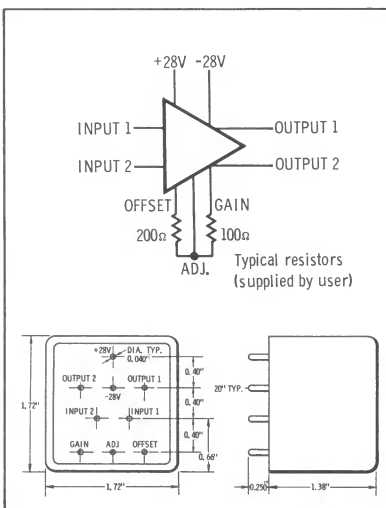
A007



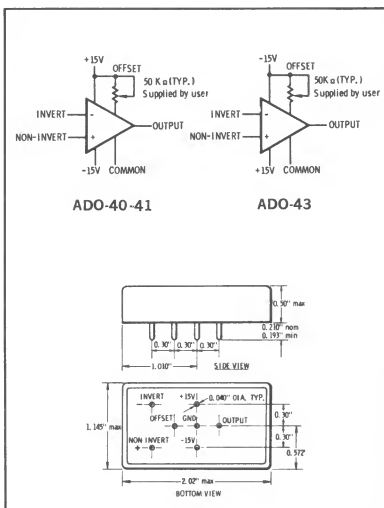
A009



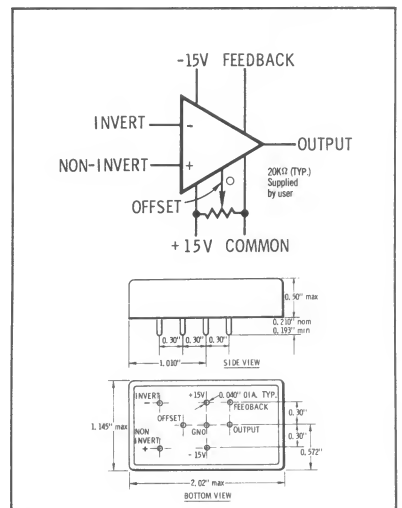
ADO-3A AND ADO-13



ADF-1



ADO-40, 41 AND 43



ADO-20, 21, 22, 23, 24 AND 25

SPECIFICATIONS At 25°C ambient and rated supply unless specified		GENERAL PURPOSE		FET INPUT, 2.5 mA OUTPUT			FET INPUT, 20 mA OUTPUT		
		ADO-13 Low Cost	ADO-3A	ADO-21 Economy	ADO-23	ADO-25 Low Drift	ADO-20 Economy	ADO-22	ADO-24 Low Drift
GAIN	DC Voltage Gain (open loop):	40,000 (typ) 20,000 (min)	60,000 (typ) 20,000 (min)	50,000 (typ) 25,000 (min)	50,000 (typ) 25,000 (min)	50,000 (typ) 25,000 (min)	50,000 (typ) 25,000 (min)	50,000 (typ) 25,000 (min)	50,000 (typ) 25,000 (min)
	Gain-Bandwidth Product (min.):	1.3 MHz	1.6 MHz	5 MHz (10 MHz typ)	5 MHz (10 MHz typ)	5 MHz (10 MHz typ)	5 MHz (10 MHz typ)	5 MHz (10 MHz typ)	5 MHz (10 MHz typ)
	Gain Roll-Off:	6 db/octave	6 db/octave	6 db/octave	6 db/octave	6 db/octave	6 db/octave	6 db/octave	6 db/octave
	Slewing Rate (min.):	0.6 V/ μ sec	0.6 V/ μ sec	10 V/ μ sec	10 V/ μ sec	10 V/ μ sec	10 V/ μ sec	10 V/ μ sec	10 V/ μ sec
INPUT	Initial Equivalent Offset Voltage: (adjustable to zero)	— —	— —	5 mV	3 mV	2 mV	5 mV	3 mV	2 mV
	Input Bias Current:	+120 nA (typ)	+120 nA (typ)	— 50 pA (max)	— 50 pA (max)	— 50 pA (max)	— 50 pA (max)	— 50 pA (max)	— 50 pA (max)
	Input Difference Current:	— —	— —	— —	— —	— —	— —	— —	— —
	Equivalent Drift vs. Temperature ¹ Voltage (max.):	$\pm 40 \mu\text{V}/^\circ\text{C}$	$\pm 10 \mu\text{V}/^\circ\text{C}$	50 $\mu\text{V}/^\circ\text{C}$ (typ) 100 $\mu\text{V}/^\circ\text{C}$ (max)	25 $\mu\text{V}/^\circ\text{C}$ (typ) 50 $\mu\text{V}/^\circ\text{C}$ (max)	10 $\mu\text{V}/^\circ\text{C}$ (typ) 20 $\mu\text{V}/^\circ\text{C}$ (max)	50 $\mu\text{V}/^\circ\text{C}$ (typ) 100 $\mu\text{V}/^\circ\text{C}$ (max)	25 $\mu\text{V}/^\circ\text{C}$ (typ) 50 $\mu\text{V}/^\circ\text{C}$ (max)	10 $\mu\text{V}/^\circ\text{C}$ (typ) 20 $\mu\text{V}/^\circ\text{C}$ (max)
	Current	— —	— —		Doubles every 10°C			Doubles every 10°C	
	Equivalent Drift vs. Time Voltage (max.):	$\pm 60 \mu\text{V}/8 \text{ hr}$	$\pm 50 \mu\text{V}/8 \text{ hr}$	$\pm 50 \mu\text{V}/8 \text{ hr}$	$\pm 25 \mu\text{V}/8 \text{ hr}$	$\pm 25 \mu\text{V}/8 \text{ hr}$	$\pm 50 \mu\text{V}/8 \text{ hr}$	$\pm 25 \mu\text{V}/8 \text{ hr}$	$\pm 25 \mu\text{V}/8 \text{ hr}$
	Current	— —	— —	— —	— —	— —	— —	— —	— —
	Drift vs. Supply:	— —	— —	200 $\mu\text{V}/\text{V}$ (typ)	200 $\mu\text{V}/\text{V}$ (typ)	200 $\mu\text{V}/\text{V}$ (typ)	200 $\mu\text{V}/\text{V}$ (typ)	200 $\mu\text{V}/\text{V}$ (typ)	200 $\mu\text{V}/\text{V}$ (typ)
	Equivalent Noise (max.):	50 μV p-p ($R_{in} = 1\text{KR}_f = 100\text{K}$)	40 μV p-p ($R_{in} = 1\text{KR}_f = 100\text{K}$)	8 μV rms 10 Hz to 10 KHz	8 μV rms 10 Hz to 10 KHz	8 μV rms 10 Hz to 10 KHz	8 μV rms 10 Hz to 10 KHz	8 μV rms 10 Hz to 10 KHz	8 μV rms 10 Hz to 10 KHz
	Input Impedance (min.):	160 K Ω (diff) 10 M Ω (C.M.)	200 K Ω (diff) 10 M Ω (C.M.)	10 ⁷ Ω (diff) 4 pF (typ)	10 ⁷ Ω (diff) 4 pF (typ)	10 ⁷ Ω (diff) 4 pF (typ)	10 ⁷ Ω (diff) 4 pF (typ)	10 ⁷ Ω (diff) 4 pF (typ)	10 ⁷ Ω (diff) 4 pF (typ)
	Input Voltage (max.):								
	Differential	5 V	5 V	— —	— —	— —	— —	— —	— —
	Common Mode	$\pm 10 \text{ V}$	$\pm 10 \text{ V}$	$\pm 10 \text{ V}$	$\pm 10 \text{ V}$	$\pm 10 \text{ V}$	$\pm 10 \text{ V}$	$\pm 10 \text{ V}$	$\pm 10 \text{ V}$
	Common Mode Rejection:	— —	— —	72 db (typ)	72 db (typ)	72 db (typ)	72 db (typ)	72 db (typ)	72 db (typ)
OUTPUT	Voltage Swing (max.):	$\pm 10 \text{ V}$	$\pm 10 \text{ V}$	$\pm 10 \text{ V}$	$\pm 10 \text{ V}$	$\pm 10 \text{ V}$	$\pm 10 \text{ V}$	$\pm 10 \text{ V}$	$\pm 10 \text{ V}$
	Load Current (max.):	2 mA	1 mA	2.5 mA	2.5 mA	2.5 mA	20 mA	20 mA	20 mA
	Output Impedance (open loop):	40 Ω	40 Ω	150 Ω	150 Ω	150 Ω	150 Ω	150 Ω	150 Ω
	Capacitive Loading: (X closed loop gain)	0.001 μf	0.001 μf	0.005 μf	0.005 μf	0.005 μf	0.005 μf	0.005 μf	0.005 μf
POWER	Supply Voltage (range):	± 12 to $\pm 18 \text{ V}$	± 12 to $\pm 18 \text{ V}$	± 12 to $\pm 18 \text{ V}$	± 12 to $\pm 18 \text{ V}$	± 12 to $\pm 18 \text{ V}$	± 12 to $\pm 18 \text{ V}$	± 12 to $\pm 18 \text{ V}$	± 12 to $\pm 18 \text{ V}$
	(rated):	$\pm 15 \text{ V}$	$\pm 15 \text{ V}$	$\pm 15 \text{ V}$	$\pm 15 \text{ V}$	$\pm 15 \text{ V}$	$\pm 15 \text{ V}$	$\pm 15 \text{ V}$	$\pm 15 \text{ V}$
	Supply Current (quiescent):	9 mA	9 mA	12 mA	12 mA	12 mA	12 mA	12 mA	12 mA
TEMP.	Temperature Operating:	— 25 to +85°C	— 25 to +85°C	— 25 to +85°C	— 25 to +85°C	— 25 to +85°C	— 25 to +85°C	— 25 to +85°C	— 25 to +85°C
	Storage:	— 55 to +100°C	— 55 to +100°C	— 55 to +85°C	— 55 to +85°C	— 55 to +85°C	— 55 to +85°C	— 55 to +85°C	— 55 to +85°C
	Package:	See Back Cover for Case Size and Pin Configuration							
PRICE	Quantity— 1-9:	\$16	\$55	\$65	\$75	\$85	\$85	\$95	\$105
	10-24:	\$15	\$48	\$61	\$69	\$78	\$77	\$86	\$95

¹ Averaged over specified temperature range

PREMIUM - 20 mA OUTPUT			SPECIAL PURPOSE	CHOPPER STABILIZED ± 20 V to ± 25 V				CHOPPER STABILIZED ± 100 V to ± 140 V	
ADO-41	ADO-40 Low Drift	ADO-43 Low Drift Low Offset	ADF-1 Fixed Gain Low Drift	AOO-4 Economy	AOO-6	AOO-10 Low Drift Low Offset	AOO-11 High Temp. Low Price	AOO-7	AOO-9 High Voltage
50,000 (min)	50,000 (min)	100,000 (min)	1000 $\pm 1\%$ (closed loop)	5 x 10 ⁷ (min)	5 x 10 ⁷ (min)	5 x 10 ⁷ (min)	5 x 10 ⁷ (min)	4 x 10 ⁷ (min)	4 x 10 ⁷ (min)
2 MHz	2 MHz	2 MHz	-3 db@30 KHz	2 MHz	1 MHz	1 MHz	1 MHz	1 MHz	1 MHz
6 db/octave	6 db/octave	6 db/octave	6 db/octave	6 db/octave	6 db/octave	6 db/octave	6 db/octave	6 db/octave (max)	6 db/octave (max)
0.6 V/ μ sec	0.6 V/ μ sec	0.6 V/ μ sec	4.5 V/ μ sec	4.8 V/ μ sec	1 V/ μ sec	0.6 V/ μ sec	1.2 V/ μ sec	10 V/ μ sec	3 V/ μ sec
— —	5 mV	5 mV	$\leq 350 \Omega$ to p.s. common required on each input.	$\pm 200 \mu$ V	$\pm 20 \mu$ V	$\pm 20 \mu$ V	$\pm 50 \mu$ V	$\pm 20 \mu$ V (max)	$\pm 20 \mu$ V (max)
+45 nA (max)	+45 nA (max)	-10 nA (max)	— —	± 2 nA (max)	± 20 pA (max)	± 20 pA (max)	± 50 pA (max)	± 20 pA (max)	± 20 pA (max)
± 10 nA	± 10 nA	± 2 nA	— —	— —	— —	— —	— —	— —	— —
40 μ V/ $^{\circ}$ C	20 μ V/ $^{\circ}$ C	10 μ V/ $^{\circ}$ C	$\pm 1 \mu$ V/ $^{\circ}$ C 0 to 60 $^{\circ}$ C	$\pm 10 \mu$ V/ $^{\circ}$ C	$\pm 0.5 \mu$ V/ $^{\circ}$ C	$\pm 0.5 \mu$ V/ $^{\circ}$ C	$\pm 1.5 \mu$ V/ $^{\circ}$ C 0 to +55 $^{\circ}$ C	$\pm 1 \mu$ V/ $^{\circ}$ C	$\pm 1 \mu$ V/ $^{\circ}$ C
± 2 nA/ $^{\circ}$ C (max)	± 2 nA/ $^{\circ}$ C (max)	0.5 nA/ $^{\circ}$ C (max)	— —	± 10 pA/ $^{\circ}$ C (typ)	± 0.5 pA/ $^{\circ}$ C (typ)	± 0.5 pA/ $^{\circ}$ C (typ)	— —	± 1 pA/ $^{\circ}$ C (typ)	± 1 pA/ $^{\circ}$ C (typ)
$\pm 50 \mu$ V/24 hr	$\pm 50 \mu$ V/24 hr	$\pm 50 \mu$ V/24 hr	$\pm 10 \mu$ V/8 hr	$\pm 50 \mu$ V/8 hr	$\pm 1 \mu$ V/100 hr	$\pm 1 \mu$ V/100 hr	$\pm 2 \mu$ V/100 hr	$\pm 1 \mu$ V/100 hr	$\pm 2 \mu$ V/100 hr
5 nA/24 hr (max)	± 5 nA/24 hr (max)	± 2 nA/24 hr (max)	— —	± 50 pA/8 hr (typ)	± 1 pA/100 hr (typ)	± 1 pA/100 hr (typ)	— —	± 1 pA/100 hr (typ)	± 2 pA/100 hr (typ)
± 5 nA/V $\pm 100 \mu$ V/V (max)	± 5 nA/V $\pm 100 \mu$ V/V (max)	± 4 nA/V $\pm 100 \mu$ V/V (max)	— —	— —	— —	— —	— —	— —	— —
5 μ V rms 10 Hz to 2 KHz	5 μ V rms 10 Hz to 2 KHz	3 μ V rms 10 Hz to 2 KHz	15 μ V p-p	100 μ V rms 10 cps to 1 Kc	5 μ V p-p 0.1 to 1 cps 10 μ V rms 10 cps to 1 Kc	5 μ V p-p 0.1 to 1 cps 10 μ V rms 10 cps to 1 Kc	10 μ V p-p 0.1 to 1 cps 20 μ V rms 10 cps to 1 Kc	10 μ V p-p 0.1 to 1 cps 20 μ V rms 10 cps to 1 Kc	10 μ V p-p 0.1 to 1 cps 20 μ V rms 10 cps to 1 Kc
300 K Ω (diff) 20 M Ω (C.M.)	300 K Ω (diff) 20 M Ω (C.M.)	600 K Ω (diff) 50 M Ω (C.M.)	200 K Ω (diff) 1 M Ω (C.M.)	970 k @ dc 500 k @ 50 cps	1 Meg @ dc 200 k @ 1 Kc	1 Meg @ dc 200 k @ 1 Kc	1 Meg @ dc 200 k @ 1 Kc	1 Meg @ dc 200 k @ 1 Kc	1 Meg @ dc 200 k @ 1 Kc
± 10 V	± 10 V	± 15 V	5 V	— —	— —	— —	— —	— —	— —
± 10 V	± 10 V	± 10 V	± 5 V	— —	— —	— —	— —	— —	— —
86 db (max)	86 db (max)	86 db (max)	90 db@60 Hz	— —	— —	— —	— —	— —	— —
± 10 V	± 10 V	± 10 V	40 V p-p (floating)	± 20 V	± 26 V	± 25 V	± 25 V	± 100 V	± 140 V
20 mA	20 mA	20 mA	1 mA	2 mA @ ± 20 V 7 mA @ ± 10 V	5 mA @ ± 26 V 10 mA @ ± 22 V	5 mA @ ± 25 V 10 mA @ ± 22 V	40 mA @ ± 20 V 10 mA @ ± 25 V	10 mA	40 mA @ ± 100 V 10 mA @ ± 140 V
50 Ω	50 Ω	50 Ω	100 Ω	30 Ω	10 Ω	100 Ω	100 Ω	100 Ω	500 Ω
— —	— —	— —	0.01 μ f	0.001 μ f	0.01 μ f	0.01 μ f	0.02 μ f	0.001 μ f (max)	0.005 μ f (max)
± 12 to ± 18 V	± 12 to ± 18 V	± 12 to ± 18 V	— —	± 28 to ± 32 V	± 28 to ± 32 V	± 28 to ± 32 V	± 28 to ± 32 V	± 115 to ± 125 V	± 160 to ± 175 V
± 15 V	± 15 V	± 15 V	± 28 V	± 30 V	± 30 V	± 30 V	± 30 V	± 120 V	± 170 V
3 mA	3 mA	3 mA	7 mA	30 mA	27 mA	27 mA	12 mA	10 mA	20 mA
-25 to +85 $^{\circ}$ C	-25 to +85 $^{\circ}$ C	-40 to +100 $^{\circ}$ C	-20 to +85 $^{\circ}$ C	-20 to +85 $^{\circ}$ C	0 to +55 $^{\circ}$ C	0 to +55 $^{\circ}$ C	-40 to +100 $^{\circ}$ C	0 to +55 $^{\circ}$ C	0 to +50 $^{\circ}$ C
-55 to +125 $^{\circ}$ C	-55 to +125 $^{\circ}$ C	-55 to +125 $^{\circ}$ C	-20 to +85 $^{\circ}$ C	-55 to +85 $^{\circ}$ C	-55 to +65 $^{\circ}$ C	-55 to +65 $^{\circ}$ C	-55 to +150 $^{\circ}$ C	-55 to +65 $^{\circ}$ C	-55 to +65 $^{\circ}$ C
See Back Cover for Case Size and Pin Configuration									
\$38	\$45	\$65	\$125	\$85	\$175	\$170	\$125	\$155	\$190
\$35	\$41	\$59	\$109	\$74	\$153	\$147	\$113	\$135	\$167

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TWX: 510-253-7685

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TWX: 710-541-1522

Ossmann Component Sales Corp.
1901 Vestal Parkway East
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TWX: 510-252-1987

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Winston-Salem 27101
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2720 Mockingbird Lane
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